CLASSIFICATION

RESPRICTED

RAL INTELLIGENCE AGENCY INFORMATRESTRICTED
FOREIGN DOCUMENTS OF RADIO BROADCASTS REPORT CD NO.

STAT

DATE OF

SUBJECT

Transportation

HOW

Book

PUBLISHED

PUBLISHED

Moscow

DATE DIST 15 Oct 1948

NO. OF PAGES 6

INFORMATION 1947

WHERE

PUBLISHED

1947

SUPPLEMENT 10

LANGUAGE Russico

CASH AWARD THE J. PARTY IN THE PARTY CALL THOSE JAMES AND ASSESSED AS THE STREET OF THE STATE OF THE WASHING OF ESPONACE ACT SO S C 31-48 BE AS ASSESSED. 135 THAN SHEETING THE STATEMENT OF THE STREET OF THE STATEMENT OF THE STA

CONTRACTOR OF THE STATE OF THE

THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSTS

STAT

CLASSIFICATION AND ADMINISTRATION OF AUTOMOBILE ROADS IN THE USER

Classification

All the automobile roads of the Soviet Union are divided into classes, depending upon their importance within the state (state classification) and upon their technical character (technical classification).

State classification is the division of automobile roads according to their importance in the national economy on the basis of their economic, administrative and political, and defense value.

The economic importance of roads is determined by the: (a) geographical location of the road; (b) relative importance of freight traffic in the general economy of the country; (c) density of freight traffic; and (d) character and type of traffic.

The administrative and political importance of roads is evaluated according to the characteristics of the centers joined by them such as: administrative, industrial, cultural. newly-populated districts, resorts, etc.

The defense value of roads is determined by their role in the system of defense. setablished by the Ministry of the Armed Forces.

On the basis of the above-listed three characteristics, all the automobile roads in the USER are divided into six classes, shown in Table 1.

Technical electification is the division of automobile roads into classes with definite technical standards which are based on technical and economical criteria. Besic technical and economical criteria for the technical classification of automobile roads are: (a) estimated speed of traffic: (b) width of the crad's basic elements (ground foundation, traffic lanes, shoulders); (c) leading and clearance of artificial constructions (structures); and (d) width of the safety some.

Other technical criveria. such as construction and type of surface are determined by computing the load of traffic and presence of local materials. The range of visibility, the longitudinal grade and the radii of horizontal

- 1 -

CLASSIFICATION WESTER (C.T.L.) K HAYY DISTRIBUTION STATE

RESTRICTED

end vertical curves are dependent upon the estimated speed of traffic.

Automobile roads in the USSR are divided into five technical classes, according to their technical and economic critoria, as shown in Table 2.

Technical classification of newly-constructed or repaired roads is made by an organization, which assigns the experiments, or approves the project, and classifies the road as to state classification. Departmental roads, which are public roads are classified in a certain technical class in accordance with road organizations, not lower than the oblast scale. In selecting the technical class of a road, it is necessary to study the economic criteria (rate of traffic).

A road may be built or reconstructed along its entire length under one technical classification; on the other hand, various sections may be built under different technical classifications, depending upon the topography of the district, the technical and economical criteria and the conditions of its use.

The opends indicated in Table 2 are estimated for determining the corresponding widths of shoulder traffic lane, and roadbed under normal conditions. In certain, especially difficult sections in mountainous districts, and within populated areas, estimated speeds may be lowered with the permission of the authority approving the project: The same authority establishes the minimum length of these sections.

When clides are possible, or when broken-down cars are parked along the road, or when laying the ground foundation (roadbod) is difficult, the widths indicated in Table 2 (in mountainous or populated aroas), and the widths of shoulders for Class I or II roads, may be lowered to one meter. For Class II, to V roads up to 0.5 meter, the corresponding minimum width of the roadbod, may be: Class I roads, 14 meters, or 2x9 meters; Class II, 9 meters; Class III, 7 meters; Class IV, 6.5 muters; and Class V, 5.5 meters. The type of surface for each class of road is determined on the basis of stross and speed of traffic.

B. Administration

The administration of automobile roads of Union importance is cerried out by the Main Administration of Surfaced Roads (Gushosdor) of the Ministry of Internal Affairs USSR. Other roads are managed by the various responsible authorities, the main road administrations in the Soviets of Ministers of the Union Ropublics with the exception of state roads belonging to specific enterprises and farms.

The system of administration and operation of the security and inspection service for repair and upkeep of reads is shown in Table 5.

The lengths and calegories of rold sections (DU) on the roads of the Gusbondor system are determined by estimating the volume of traffic on the roads and the types of surfaces (Table 4).

In especially important sections (approaches to large cities, mountainous areas, surface widths over 6 meters, etc.) the length of the section is shortened but not by more than 25 percent, at the same time its category is raised.

The length of road stretches is also dependent on the type of surface and rate of traffic (Table 5).

In road widths over 7 meters in mountainous districts, in approaches to large cities, etc., the length of the distance is diminished, but not by more than 25 percent. Bridge stretches are determined in bridge lengths over 500 meters.

- 2 -

RESTRICTED

RESTRICTED

STAT

RESTRICTED

RESTRICTED

The length of maintenance strips (by-passes) on improved roads is 3-4 km. on stone surface roads 4-5 km, and on ground surface roads 5-8 km.

At present the organizational breakdown within the Gushosdor operates as follows:

Building control -- for each independent objective.

Building regions -- for 30-70 km of road, depending upon the size and complexity of the work.

Stretch -- 10-20 km of road, depending upon the size and type of the work.

Foreman's selections -- 10-15 km of road, or separate, large, artificial constructions.

Table 1. State Classification of Roads

State Roads (Roads of Union importance)

- 1. Roads joining centers of Union republics or especially large industrial and cultural centers of the USSR
- 2. Reads, joining economic regions of Union importance, or their administrative centers, between which there is a heavy freight or passenger traffic for controlling a given territory or for further development of a network.
 - 3. Basic network of roads important to defense.
- 4. Roads joining resorts of Union importance, and connecting them with railroad stations and piers.
- 5. Roads serving international trade exchange and passenger traffic, and connecting large centers of the USSR with large centers of neighboring states.

Republic Hoads

¥.

- 1. Roads connecting main administrative, cultural, economic, and political centers of autonomous republics, kray, and oblast with the centers of a Union republic and with each other.
- Roads serving freight and passenger traffic between points, located in different autonomous republics, kray, and oblast, and because of their character and heavy traffic having special economic importance for the Union republi:
- Roads connecting centers of extracting and processing industry, and connecting resorts of importance to the entire Union republic with the nearest railroad stations and piers.

Oblast Roads (Includes kray, autonomous republic, etc.)

 Roads connecting rayon centers with the center of their own autonomous republic, kray, or oblast.

- 3 -

RESTRICTED

RESERICIED

RESTRICTED

- 2. Rocas serving traffic between points in different rayons, and which, because of their character and heavy traffic, have special economic importance for the autonomous republic, rayon, or oblast.
- 3. Roads connecting centers of extracting and processing industry, base storage points, rescrie, senstoriums which are important to the whole entonomous republic, kray, or oblast with the nearest railroad stations and piers.

Rayon Roads

- 1. Roads commercing rayon centers with each other and with village scylets.
- 2. Roads, having a special occuraic significance for the rayon because of their nature and heavy traffic.
- Roads commetting machine-tractor stations, machine-maintenance points, and storage points with rayon centers, railroad stations, and piers.

Village Roads

Roads commecting villages, sowhoz, and kolkhoz with each other and with village soviets and machine-tractor stations and machine-maintenance points with interior storage points.

Departmental Poads

- 1. Roads of interior economy, passing through the territory allowed to an enterprise (plant, sowkhoz, storing point, oil base, etc.)
- 2. Roads connecting enterprises with the general network of roads and primarily serving the needs of the enterprise.

Table 2. Technical Classification of Roads (Planned)

	Technical Classification				
Technical and Economical Criteria	I	II	III	IV	A
Estimated speed, (km/hr) Width of the shoulder, (m) Width of the traffic lane, (m) Width of ground foundation (readbed		100 2.5 7	8ນ 2.5 6	60 2.5 5.5	40 2.0 3.5
(m)	2713 or not less than 23 m	12	11	10	8.5

Estimated Loading of Artificial Structures:

a Metal, reinforced concrete, and stone	N-13 and N-60	N-13 and N-60	N-10 and N-60	N-10 and N-60	H-10 and N-60
p Wooden			N-8 and N-30	N-8 and N-30	N-8 ed 4 N-30
Bridge Clearances					
a Kornel	2x G-7	0-7	0-6	0-6	e e
b Widened	*	UG-10	00-9	10G-8	8

- 4 -

RESTRICTED

STAT

Not standardized according to the given classification

::×:	Technical Standards	Technical Classification				
1.	Radii of Curves in Hori- zontal Planes (in m).	, 1	II	III	IA	*
a. b.	Recommended Basic estimate	2,400 1,600	1,600 800	1,000	500 180	20 45
c.,	Min: mun	500	300	200	80	25
2.	Longitudinal Grade (in \$)					,
t.,	Maximum	3	14	-5	6	7.5
b.	Executional	4	5 -	6	7.5	9
3.	Same for train traffic	, j †	4	5	6	6
3.	Visibility Range (in m)					
£.	On a plane	160	150	90	50	30
b.	In profile	160	75	45	25	15
4 .	Redii of Vertical Curves (in m)				
a.	Concave not less then Convex within the range	2,500	1,000	600	250	60
	from.	2,500	1,000	600	250	60
	to	10,000	2,500			

Table 3. Organization of Road Administration

Roadr	of	Union	Importance
-------	----	-------	------------

Roads of Republic, Oblast, and Rayon Importance

- I. Mein Administration of Surfaced Roads of Ministry of Internal Affairs USSP
- I. Main Road Administrations Glavdorupry of Soviet of Ministers of Union Republica
- IIa. Administrations and sections of hard surface roads (Ushoedor ard Oshosdor), of the Ministries of I:terral Affairs of the Union and Autonopous Republics, and administrations of these ministries in may and oblast.
 - IIa. Road administrations of the Soviets of Ministers of Autonomous Republics
- ID. Administrations of separate roads IIb. Road sections of oblast and kray (Uproder)
 - executive committees

III. Read sectors

- MIG. Hoad sections
- IIIb. Rayon and village roads
- IV. Stretches of road and bridge
- Stretches of road and bridge fore-IV.
- V. Maintenance tours, ferry crossings, V. Maintenance tours, ferry crossings, bri ages bridges

- 5 -

STAT

RESTRICTED

Table ". Categories of Road Sectors

Catogory	Vc Un	ol of Traffic	Types of Road Surfaces	Road Sectors (km)
1 .	(a)	Over 500	Not less than 80% of roads with stone surface	100-200
	(b)	Less than 500	More than 50% of reads with finished surface	
u II	(a)	From 300 to 500	Regardless of type of surface	150-250
	(ъ)	Lers than 300	Not less than 60% with stone surface	
ш		(see then 300	Mainly ground	180-300

Table 5. Length of Stretch

Type of Surface	Vol of Traffic Units (24 Hrs)	Length of Stretch (km)
come and finished, with 7 m-width	Over 500 500-500 Up to 300	20 25 30
Ground, regardless of width of surface	Over 150 Up to 150	35 40

- E N D -

- 6 -

RESTRICTED